

Please cancel claims 1 to 11 without prejudice or disclaimer to the subject matter therein.

Please add the following new claims:

--12. An isolated polynucleotide molecule that encodes a polypeptide selected from the group consisting of (a) a polypeptide comprising amino acid residues 48 to 78 of SEQ ID NO:2, (b) an allelic variant of (a), and (c) a splice variant of (a).

*Sub c1* 13. The isolated polynucleotide molecule of claim 12, wherein the polynucleotide molecule encodes a polypeptide comprising amino acid residues 48 to 78 of SEQ ID NO:2.

14. The isolated polynucleotide molecule of claim 13, wherein the polynucleotide molecule comprises nucleotides 317 to 409 of SEQ ID NO:1.

15. A composition comprising the isolated polynucleotide molecule of claim 13.

16. The isolated polynucleotide molecule of claim 13, wherein the polynucleotide molecule is a DNA molecule.

17. A vector, comprising the isolated polynucleotide molecule of claim 13.

*Sub c2* 18. The isolated polynucleotide molecule of claim 12, wherein the polynucleotide molecule encodes a polypeptide comprising amino acid residues 18 to 78 of SEQ ID NO:2.

19. The isolated polynucleotide molecule of claim 18, wherein the polynucleotide molecule comprises nucleotides 227 to 409 of SEQ ID NO:1.

*Sub c3* 20. The isolated polynucleotide molecule of claim 12, wherein the polynucleotide molecule encodes a polypeptide comprising amino acid residues 18 to 385 of SEQ ID NO:2.

21. The isolated polynucleotide molecule of claim 20, wherein the polynucleotide molecule comprises nucleotides 227 to 1330 of SEQ ID NO:1.

*Sub c4* 22. The isolated polynucleotide molecule of claim 12, wherein the polynucleotide molecule encodes a polypeptide comprising amino acid residues 1 to 385 of SEQ ID NO:2.

23. The isolated polynucleotide molecule of claim 22, wherein the polynucleotide molecule comprises nucleotides 176 to 1330 of SEQ ID NO:1.

24. An isolated polynucleotide molecule that encodes a protease activated receptor-4 polypeptide, wherein the polynucleotide molecule is obtainable by probing a lymphoma Daudi cell cDNA library with a hybridization probe comprising nucleotides 818 to 1391 of SEQ ID NO:1, and isolating cDNA that hybridizes with the hybridization probe to produce a polynucleotide encoding a transmembrane protein which, when expressed by a host cell, is activated by thrombin to stimulate phosphatidylinositol 4,5-diphosphate hydrolysis.

25. An isolated polynucleotide molecule that encodes the amino acid sequence of SEQ ID NO:7.

26. An isolated polynucleotide molecule that encodes a polypeptide comprising an amino acid sequence that is at least 90% identical to amino acid residues 18 to 78 of SEQ ID NO:2, wherein any difference between the amino acid sequence of the polypeptide and the amino acid sequence of amino acid residues 18 to 78 of SEQ ID NO:2 is due to one or more conservative amino acid substitutions.

27. An isolated polynucleotide molecule that encodes a polypeptide comprising a mutated form of amino acid residues 18 to 78 of SEQ ID NO:2, wherein the mutation is a substitution of an alanine residue for the arginine residue at position 47.

28. An isolated polynucleotide molecule comprising a nucleotide sequence that is complementary to the nucleotide sequence of SEQ ID NO:1.

29. An expression vector, comprising a polynucleotide molecule that encodes a polypeptide comprising amino acid residues 18 to 78 of SEQ ID NO:2, a transcription promoter, and a transcription terminator, wherein the promoter is operably

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(a) contacting a polynucleotide probe under hybridizing conditions with either (i) test nucleic acid molecules isolated from the biological sample, or